

INPLANT TRAINING MANUAL



INFORMATION TECHNOLOGY DEPARTMENT

NAME OF STUDENT: :Mayuri Madhav Phapale

PROGRAMME: I.T

SEMESTER/YEAR: 6th Semester

ENROLMENT No.: ES19IE006

CONTACT No.: 8652548667

GOVERNMENT POLYTECHNIC, MUMBAI

(An Autonomous Institute of Government of Maharashtra)

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GOVERNMENT POLYTECHNIC, MUMBAI

VISION:

Transform knowledge into work.

MISSION:

We are committed for

1. Quality education for lifelong learning
2. Need based educational programmes through different modes
3. Outcome based curriculum implementation
4. Development & up gradation of standard laboratory practices
5. Promoting entrepreneurial programmes

We believe in equality, safety, environment friendly practices & teaching learning innovations

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INFORMATION TECHNOLOGY DEPARTMENT

VISION:

Develop IT professionals to solve real life problems

MISSION:

Information technology department is committed to

- Offer need based quality education for lifelong learning
- Continuous up gradation of curriculum and laboratories through industry institute interaction.
- Conduct short term programmes to serve society.
- Develop entrepreneurial capabilities.
- Imbibe social awareness and responsibility in students to serve the society and protect environment
- Make the students industry ready to enhance their employability in the industries.

STUDENTS PERSONAL INFORMATION

- Student's Full Name : Mayuri Madhav Phapale
 - Programme : Information Technology
 - Class/Div. : TYFS
 - Blood Group: A+
- Enrollment No.: FS19IF006

Date of Birth: 26/06/2002

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● Parents Details

1. Father's Name: Madhav Sudham Phapale
- Occupation: Driver Contact No.: 7738238852
- Email Id: _____

Office Address with Contact No.: -----

1. Mother's Name: Jayshree Madhav Phapale
- Occupation: HouseWife
- Contact No.: 7700095673 Email Id: NA
- Office Address with Contact No.: NA

Name & Sign of the student

Name & Sign of Father / Mother of student

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STUDENTS PERSONAL INFORMATION

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OVERVIEW:

Government Polytechnic Mumbai (GPM), established in 1960, is a leading institute in Mumbai region, and has been conferred with an academically autonomous status by the Government of Maharashtra. GPM has always remained at forefront to impart high quality technical education to the society, and continuously updated its curricula as per the technological changes with respect to time, to cater the needs of industries. To be the part of the mission 'Skill India', to achieve an academic excellence by exposing the students with latest technological developments occurring in various field and to enhance their professional skills, Government Polytechnic, Mumbai has uniquely introduced one complete semester's (Min. 20 weeks to 24 weeks) industrial training in curricula for the programme Information Technology. To implement the proposed inplant training successfully, training manual has been developed. The inplant training manual details the guidelines for students, faculty members, departments of the institute, industry persons at different levels, and other persons involved from academic organization as well as industries, for effective implementation of the inplant training during last semester of the various programmes. It provides practical advice about developing links with industry and setting up appropriate placement opportunities for students. Students will gain more from their placement, if properly prepared and advice is given about how they can be supported both before and during the placement. The manual highlights procedure/guidelines related to placement of the students to inplant training, selection of various training areas, documentation, guidelines for the students, daily and weekly diary formats, student and parent consent forms, monitoring and evaluation, report preparation and certification etc., essential for the successful completion of the inplant training.

INTRODUCTION

Indian industrial sector is passing through highly competitive phase due to globalization. Cut throat competition is predominant and quality is one of the decisive factors for sustainability. Quality has become a decisive factor in attracting students and faculty to an institution. The institutions which offer quality education will survive in present scenario. Industrial training is one of the essential curriculum requirements of every technical institute. Fresh young diploma students from the finest polytechnics are like uncut diamonds and look useless like trifles, give them proper training and they will dazzle forth in all their glory. In this context Government Polytechnic (Academically Autonomous Institute of Govt. of Maharashtra) has taken initiative and included inplant training for the programme like Information Technology. The intention of including the inplant training is to provide the exposure of actual industrial environment, industrial practices etc. to the students, and enrich their theoretical concepts, as well as practical skills to make them more employable. Industrial Training helps in increasing the knowledge and skill of a person for doing a particular job. Training enables acquisition of latest skills, and thus increases the versatility of the person for boosting his/her career. Appropriate training teaches proper operation, proper handling of equipment's and develops working confidence with whatever students have learnt. After completion of training, the students will feel much more confident about the field in which they have specialized. If some concepts remain unclear to the students during theoretical learning then at the time of interview, exams or in professional life, students may have to face many problems. Professional people always expect specific and accurate solution to every problem. Hence, inplant training will be very much useful to the students to clear some concepts, acquire different skills, get new ideas, and mainly to get introduced to the latest technological developments in various fields. Ultimately inplant training will be useful to enhance the professional life of the students in terms of various skills achieved, intelligence, sharpness, and mainly confidence.

2. PURPOSE OF INDUSTRIAL TRAINING

Industry training has been established to provide students with an overview of industries and to expose them to different aspects of a business, all under the guidance of skilled and experienced persons within the organization. This exposure should include all or most of the following aspects of business such as: management- and personnel policies, financial, marketing and purchasing functions, legal and social aspects, operations and technical activities. These goals can be achieved through the following forms of interaction:

- Introduction to the organizational policy and culture
- Organization of the structure and hierarchy of ranks within the organization
- Liaison with employees at different levels.
- Liaison and cooperation with other engineering disciplines.
- Meaningful work programs or projects done from planning to completion and reporting.

3. OBJECTIVES OF INDUSTRIAL TRAINING

An ultimate objective of an Industrial Training is to make students ready for the employment in the specific discipline at the conclusion of the diploma course in specific branch of engineering. The programme wise knowledge will be enhanced by this opportunity, to relate academic and professional aspects of engineering disciplines. Various objectives of industrial training can be listed as:

- To gain hands-on experience of working as an engineering professional, including the technical application of engineering principles and methods.
- To work with other engineering professionals.
- To experience the work discipline in a professional organization.
- To develop technical, interpersonal and communication skills, both oral and written.
- To observe interactions of engineers with other professional groups.
- To study the structure of an organization and observe its functioning.
- To get the exposure of management programmes and systems, effective administration methods.
- To understand the process, drawings, techniques, methods etc., and compile it in documentation form.

4. PLANNING OF INPLANT TRAINING

The successful implementation of inplant training involves precise planning. The steps to be followed for its effective implementation are discussed below.

4.1 Planning for Inplant Training

- This step includes the collection of data from various sources such as BOAT, Confederation of Indian industry (CII), websites, of the prospective industries/offices for student's placement etc. The data includes the name of industry, addresses, contact persons, phone nos. and mail id of contact persons, type of business and product etc.
- These prospective industries are to be visited by TPO, HoD, and departmental faculties, etc. to collect the necessary information. This is continuous activity and data is updated regularly.
- Submission of an introductory letter/mail to industrial undertakings.
- Obtaining placements for the students,
- Issue of letters and completion of procedures,
- Assigning industries to departmental faculties for monitoring the inplant trainees.
- Orientation programme for students two weeks before reporting for inplant training.
- Monitoring inplant training (at least once in two weeks for each industry).
- Implementation and evaluation of inplant training

4.2 Placement Procedure

- Training can be done in one or more areas, such as, programming, networking, maintenance, system administration, research and development, etc. Relevant information about different firms participating in training scheme can be obtained from the following sources:
 - i. Library
 - ii. Respective Heads of Departments
 - iii. Training and Placement Officer and
 - iv. Websites, Apps etc.
- Eligible students can seek guidance from Head of Department, Faculty Members, and Training and Placement Officer for selection of firms.
- Students should give choice of firms in order of preference, to the Training and Placement Officer through concerned Head of Department (keeping in view facilities available and individual's interests).

- A student can also be placed in a new establishment, which has adequate training facilities if specific request for approval is made prior to the start of placement activities.
- Some companies conduct interview and select the candidates. The interviews may be conducted in industry premises or in our institute. Students will be given chance to appear for interview if they satisfy the minimum requirements laid down by the particular establishment. Once selected, no student will be allowed to appear for subsequent interviews with other establishments.
- Students will be placed at other available establishment depending upon the availability of seats, choice and merit. Students are required to be in touch with their department and finalize their placement.
- Once placed into a particular establishment, students are not allowed to change that establishment on any account. Factors like closeness to residence, stipend paid, etc. will have to be taken into account only at the beginning of training in the larger interest of the polytechnic.
- Approval/consent from the parent/ guardian, and student is required in prescribed form before the students are placed for Inplant Training. Students should collect all forms, letters for the company after submitting the approval.
- Report to the Personnel Manager/Officer or Training Manager/Officer or to the Officer who is in-charge of apprentices/training. In a small firm, this officer may be one of the Directors himself.

Students are required to:

- Fill in the Joining Report in duplicate and get it endorsed by the concerned Officials. Fill in the Joining Report, if any, of the organization also.
- Request the concerned officer to explain to you the rules, regulations and procedures of the organization and to take you around the plant so as to get an overview of the company's facilities, products, processes and organization.
- Get introduced to all the concerned persons of the organization. Request for a plan of "Training Program" for the students, if not prepared. The industry and Polytechnic Supervisors may jointly plan for training program.
- Submit all forms duly filled in to the Polytechnic Supervisor.

4.3 Inplant Training Program:

- Organizing a rigid and identical training program for each student in a discipline

may not be practically possible. The training program has to be around facilities available in an individual unit and must fit in the philosophy and thinking of the training organization. Generally, medium and large scale industries have organized training departments. These industries are interested in absorbing the students later in their expansion programme, industries having one-off, batch and mass development activities, industries having a few processes and also industries which have sophistication.

- Some industries believe in ‘on-the-job training’, some take all six months to give the students understanding of products and processes in their complex, multi-plant organization, some give assignments, while others give meaningful projects and responsible tasks.
- Very important aspect is an understanding for meaningful training which fits in the framework of both our curriculum and organization’s philosophy. Training programs have to be structured around the student, the curriculum, facilities and the thinking about how to train. Every task provides an opportunity to learn through observations, doing, reading and discussion around the task/assignment/problem or project.
- Students who are modest and inquisitive, who take initiative, keep their eyes, ears open and demonstrate better attitudes for learning gain most. One realizes what is right and what should be done. Exact repetition of tasks like copying or memorizing does not provide learning of skills or knowledge.

4.4 Monitoring of Inplant training

- Each department has organized and well-planned system for supervision of the students while they are in training. A faculty member is assigned to a group of students and firms.
- He / She visit each student once a fortnight on the average and maintains close liaison with his/her counterpart in the organization.
- In case of any problem or difficulty, students have to contact their Polytechnic supervisor and communicate the issue.
- All reports, records and project work are to be submitted through this polytechnic supervisor. Respective Heads of Department of concerned disciplines are in charge for satisfactory implementation of the scheme including placement, supervision, evaluation and related issues. Overall co-ordination of the programme is affected by Principal's Office and Training and Placement Officer.
- In case of strike/lockout or urgency, students should contact section in-charge of

industry in which they are working, polytechnic supervisor, concerned Head of Department and Training and Placement Officer.

4.5 Daily and Weekly Diaries

Students are required to maintain the record of day-to-day work done in industry. Such records are called 'Daily Diaries'. The main purpose of writing daily and weekly diary is to nurture the habit of documenting and to encourage the students to search for details. It also cultivates the students' own thought process and reasoning abilities. The students should record day to day account of the observations, processes, impressions and information gathered etc. in the daily training diary. It should contain the sketches, calculations, planning, rough works, & drawings etc. related to the observations made by the students. The diaries are to be written regularly and records are to be maintained updated in diaries. The weekly diary has also to be maintained and it should contain the salient work performed in the particular week. All days for the week should be accounted for clearly giving attendance, absenteeism, leave, etc. The daily and weekly training diaries should be signed after every week from the supervisor/ in charge of the section in which the student has been working. The diary should also be produced to the polytechnic supervisor visiting the industry from time to time and get signed on the day of his visit.

4.6 Attendance Certification

Every week, students have to get their attendance certified by the training supervisor of the industry in the weekly diary. Regularity in attendance and submission/completion of reports will be duly considered while giving the term- work marks. The students may be allowed to take leaves as per rule of the industry/Government Polytechnic Mumbai. If, at any stage, the leaves are exceeded beyond the limit, the employer may take action such as stopping the payment of stipend or Principal may extend the training period in marginal cases. If the students remain absent for the considerable period, he/she may be detained for the semester as per the rules, ultimately training may be cancelled. In such cases, final decision taken by respective head of department and the Principal will be the final.

5. GUIDELINES FOR INDUSTRIAL TRAINING

It is mandatory for all the students of Information Technology to complete inplant training at an approved organization, during final year (sixth semester). The duration of training will be of minimum 20 weeks but not to exceed 24 weeks .Important aspects of inplant training can be highlighted as:

5.1 Role of Department

- Department have to send training request letter to various industries well in advance before commencement of training.
- After getting sufficient number of seats from the industries, students will be placed in different industries for inplant training.
- Students will have to fill up training form.
- Department will issue an order letter to industry for the said training mentioning registration number of students.
- All above activities have to be carried out in advance of previous semester as plan out of placement in consultation with students. The students would normally be placed as per their choices, in case of more demand for a particular industry students would be allocated place based on their relative merit (based on declared last semester result)
- During the training period, the departmental coordinator in consultation with head of department will maintain a schedule for monitoring of industrial training and according to it he/she will monitor training of students in various industries.
- Visit industry/ follow up the students at training place at least once in every two weeks for evaluating student's activity and their progress.
- The institutional coordinator during the visit to industry will check the progress of the student in the training, his/ her attendance, discipline, presentation if any, and inplant training report preparation etc.
- Evaluate the daily diary, weekly diary, training reports etc. as a part of the term work assessment.
- Evaluate the students through presentation, viva at the end of the term as a part of term end assessment.

5.2 Role of Industry:

- Industry will give effective training to the students for improving their practical/professional skills.
- Industry is expected to assign group of the students under training to some middle management level person as on job industrial guide for supervision and guidance (industrial guide).
- Industrial expert has to assign the daily work to the students and monitor the students on daily basis. Industrial expert has also to sign the daily and weekly diaries also.
- Industry expert may allot some projects, assignments, tasks to an individuals or group of students under training. Those students who have been allotted such assignments, projects, etc. has to include a dedicated chapter about the task, problem solution methodology etc. in industrial training report.
- Industry expert should see that, the students are performing the given task under his/her supervision only.
- Industrial expert has to guide students for preparing the industrial training report. This report should not contain any confidential document like credentials ip addresses, database information, etc. He should verify/certify training report formulae and regulation of industry related to confidentiality of the content.
- Industry is expected to maintain attendance of the students undergoing training and report any irregularity of the students to the concerned polytechnic co - coordinator, Head of Dept., or Training and placement officer.
- Industry is also expected to issue a certificate of attending training on their letter head with comments if any for student's record and motivation.

5.3 Guidelines for Students

- Students would interact with the identified faculty of the department to suggest his/her choices for suitable industry.
- Students have to fill the forms, duly sealed and signed by authority's along with training order letter and submit it to training officer in the industry on the first day of training.
- Students must carry his/her Identity card issued by institute during training period.
- He/she will have to get the entire necessary information from the training officer regarding schedule of the training, rules and regulations of the industry. Student is expected to follow these rules, regulations, procedures etc obediently.
- During the training period students has to keep record of all the useful information in note book (daily diary)
- Prepare an industrial training report finally about the whole training for submitting to the department at the time of final presentation and viva.

5.3.1 Learning through placement

Industrial training provides an opportunity for students to develop new skills and attributes, to apply theoretical concepts they have learnt within their programme and to contextualize what they have learnt. Work-based learning is very different to traditional class-based learning in a number of ways:

- Students will get an idea about IT industry culture.
- Students will get practical experience about different industrial software products, websites, databases, networking and security, etc
- Students will get an opportunity to learn about various new technologies, programming languages, etc.
- Students will understand actual how software development life cycle works.

The student should also focus on additional areas during Inplant Training

- Location and Description of industrial facility.
- Company Profile
- Role of various departments in industries.
- Learn & practice industrial detailing products.
- Which clients get serviced by industry?
- How coordination between industry and various clients can be done?
- Students will come to know their area of interest.
- Student's communication skills, living standard, how to work in team, problem solution ability, etc can be improved.

5.3.2 Discipline:

Students are required to follow the rules and regulation of the organization. Their attitude and discipline should be exemplary. Students should remember that they are an ambassador of our institute when they are working as a trainee. Training of the students in future will depend upon the image created by the trainees. Hence, trainees must maintain good relations with the company authorities.

Student's behavior may create positive or negative response and subsequent batches of students will be affected by the same. The following acts are highly undesirable by any of the students undergoing training and may result in severe punishment and cancellation of the term. Such instances have been observed and properly dealt within the past. Students were punished for the same after proper investigation:

- Offending behavior with the industry colleagues.
- Refusal to work if a job/problem is given.
- Not remaining on the job assigned.
- Grouping with other trainees and passing away time.
- Loitering outside, sitting in the canteen during working hours.
- Asking someone else to sign for him on the muster or punch his card.

5.3.3 Punctuality:

Students should be regular and punctual during complete training period. Student must avoid the following:

- Late going to or coming early from the industry without permission or proper reason
- Taking leave without prior sanction from concerned person/s
- Habitual absenteeism
- Taking leave in excess of what is allowed.

If it becomes essential to take leave for the considerable period, due to unavoidable circumstances, contact with reasons to industrial coordinator, training coordinator from institute and Head of Department, prior going to leave.

5.3.4 Access to Information

Companies need to maintain confidentiality regarding their design/product/process/credentials. Student should co-operate with the company in maintaining this secrecy. Student should not present any information of company without prior permission of the officials. Student should attach therefore 'No Objection Certificate' from the company in industrial training report. No company would like such information to go to their competitors or any others. Proper identity regarding student/guardian background should be revealed to the company before start of the training so that later on problems do not arise.

5.3.5 Change over to Other Company

Once placed in a company, no change is allowed during the training period. Students should not change the companies amongst their self. Similarly, he/she should not join any company on his/her own. Students have to join the company where they are placed by the Polytechnic. If students wish to take training in any company not on departmental list, he/she may apply to Training and placement officer / HoD and get a request letter. Specific approval of company has to be obtained well in advance. Training expert/ department head/TPO from the institute may then visit the company, or discuss with the company persons. If they are satisfied that adequate training facilities and staff are available, then only student will be placed in that industry.

Once the students are placed, change of the company will not be allowed on any case, and students are required to adopt to work situations. If students change the company by their own, training may not be approved and students may have to repeat the term.

5.3.6 Clarification of Training Semester

Students will surely gain when they will try to correlate theoretical concepts with practice. Every student must ensure that he/she has acquired some skills, gained experience, observed practices, visualized work situation, and thus learnt something. Students may have some doubts or queries about product process etc.

- Every student will see that all progress or work diaries are written, countersigned, and submitted to the institute coordinator time to time.
- Student shall also ensure that inplant training report is completed, duly cleared by the company and duly signed by concerned coordinator.

6. TRAINING AREAS

The students may be the part of the project, small tasks, observe the procedures or collect the information pertaining to the following broad areas:

6.1 Information Technology Areas

Following are some of the important areas of inplant training and supervisory work for Information Technology students:

- ❖ Software Development
- ❖ Web Development
- ❖ Networking
- ❖ Database Administration
- ❖ Data Science
- ❖ Cyber Security
- ❖ Game Development
- ❖ Artificial Intelligence
- ❖ Cloud Computing
- ❖ Ethical Hacking
- ❖ Multimedia Applications
- ❖ System Administration
- ❖ Hardware Maintenance

7. CURRICULA OF INPLANT TRAINING

Government Polytechnic Mumbai has been awarded an academic status by Govt. of Maharashtra vide government resolution, Higher and Technical Education, and Employment Dept. No. WBP- 1093/(2640)(69)/VE-5, dated 30th May, 1994 to fulfill the demands of the industry as per the technological changes taking place in various fields of application. In this context, to monitor the overall functioning of the institute, various committees namely Governing Body, Board of Studies, Planning Committee, Evaluation Committee, Examination Committee, Appeal and Grievances Committee, and Purchase Committee were constituted under the autonomous institute by Govt. of Maharashtra vide government resolution, Higher and Technical Education, and Employment Dept. No. WBP- 1093/(2640)(69)/VE-5, dated 31st May, 1994. As per the above referred resolution, Governing body is empowered to approve modifications in the present curriculum in order to meet the changed demands of the industry, society from time to time (Governing body- Function 7). In tune with the same, Board of Studies committee, is also empowered to prepare the syllabi of various courses, and develop curriculum, keeping in view the objectives of institute and the national requirement, provided syllabi shall be equivalent to the syllabi of Board of Technical Education (Board of Studies-function 1).

7.1 Information Technology curriculum For Inplant Training

Programme : Diploma in Information Technology (Sandwich Pattern)										
Course Code: IT19311				Course Title: Inplant Training						
Compulsory / Optional: Compulsory										
Teaching Scheme and Credits				Examination Scheme						
L	P	TU	Total	TH (2Hrs)	TS1 (1Hr)	TS2 (1Hr)	PR	OR	TW	Total
-	40	-	40	-	-	-	-	100*	100	200

Abbreviations: L- Theory Lecture, P-Practical, TU-Tutorial, TH- Theory Paper TS1 & TS2- Term Tests, PR-Practical, OR-Oral, TW: Term Work (progressive assessment) , * Indicates assessment by External Examiner else internal practical skill test , # indicates Self, on- line learning Mode, @ indicates on line examination

JOINING REPORT

Date: 11/ 06/2022

To,

The Principal,
Government Polytechnic, Mumbai,
Kherwadi, Bandra (E),
Mumbai 400 051.

Subject: Joining report for the Inplant training

Reference:

Respected Madam / Sir,

With reference to above subject, myself **Miss. Mayuri Madhav Phapale**, student of Govt. Polytechnic Mumbai, Third year IT, Enrollment No **FS19IF006**, Joined for the Inplant Training At **Reknot Solutions Pvt. Ltd.** (Name Of The Organization) on 07 /02 / 2022 (Date).

I assure that, during complete training period, I will follow the rules and regulation of the Said organization.

Thanking You.

Signature of the Officer (Industry)

Chapter I

Introduction of the Industry

Overview of the Industry:

- Founded in 2018 and it is a Development & Design expert company providing superior Software, Web, Mobile and Creative Designing solutions and services.
- We strive to provide you with the best solutions to your business system needs. As our client, we place great emphasis and focus on your problems and goals and develop solutions that best fits your needs. We offer strong and effective solutions to your business with an enduring impact. We think of ourselves as your long-term partner.
- As partners, we will ensure your business needs are carefully evaluated and will decide the best methods to represent your company, and develop a strong and effective solution for your business that will have an enduring impact.
- We have succesful experience of 10 + products hand overed to clients and oprerationally performing best in the market.

Location: Thane, Maharashtra

Technical / Non-technical Skilled personnel: Total 12

Marketing Strategies: Word-of-mouth, Email marketing, Customized software services, Cost etc..

Software Services: Website Development, Mobile Application Development, Web Application Development, UI-UX are major software services.

Products: AgriBusiness , EduTech, Telecom and E-commerce Sector
Organizational

Chapter II

Organizational Structure

Organizational Structure :-

Structure:

Work culture: We keep it short and simple

- Respect and fairness
- Trust and integrity
- Growth mindset
- Teamwork
- Employee engagement and opportunities for advancement
- Communication and transparency
- Results
- Work-life balance
- Impact on the world **Quality Control:**
 - Follows Quality Assurance (QA), Quality Control (QC) and Testing
 - Unit Testing ->Integration testing ->System Testing -> Security Testing -> UAT
 - Covers entire SDLC
 - Continuous monitoring
 - Apply Fit for Purpose

Role of Engineer :

Android Application Developer :

- Building and Designing advanced Android applications for Android platform
- Cross-functional team collaboration to design, define and ship new features
- To use and work with outside APIs and data sources
- To perform unit test to ensure usability, robustness, edge cases and general reliability
- To work and make sure improved application performance and bug fixing
- Continuous evaluation, discovery and implementation of new technologies to maximize the efficiency of development.

Back End Developer :

- Storing data and also ensuring that it is displayed to that user who are supposed to have access to it
- Responsible for developing Payment processing system like accepting data, securely storing that info, and making charges to that payment
- Manage APIs resources which work across devices
- He or she might be involved in the architecture of a system and Data science analyses.
- Developers are responsible to organize the logic of the system which runs across various devices
- Back end developer also needs to involved in building frameworks or the architecture to make it easier to program against.
- Back End web developer should have the skills for implementing algorithms and solving system related problems.

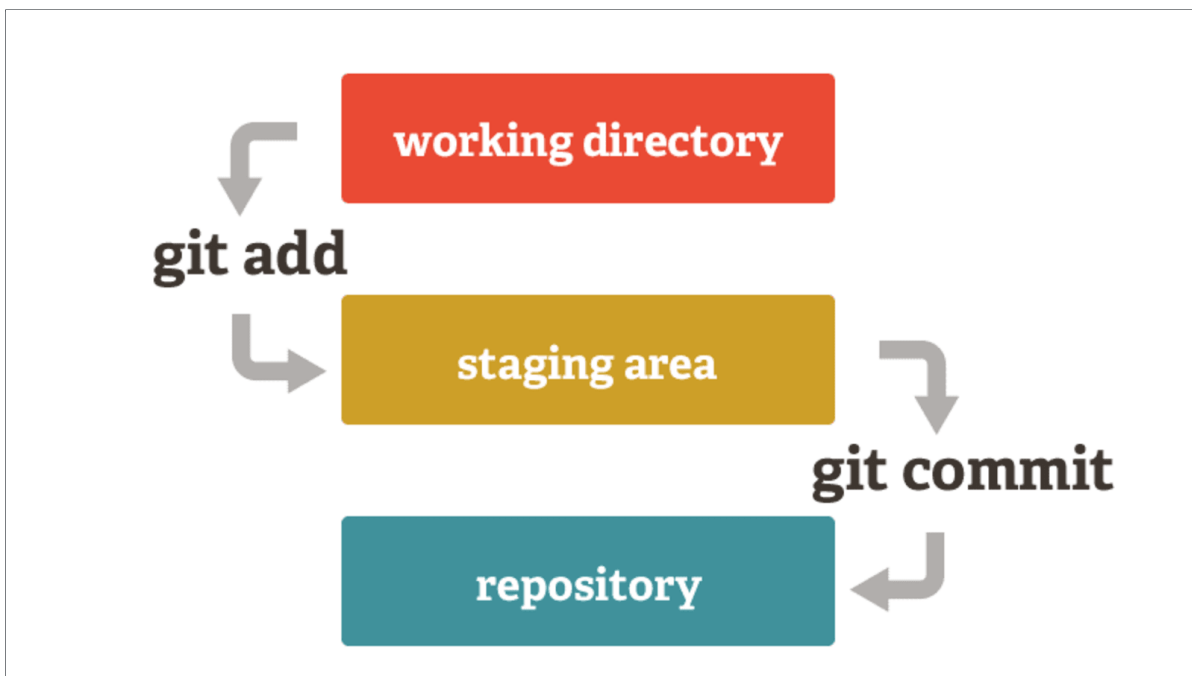
Chapter III

Learning Resources Collected

3. LEARNING RESOURCES COLLECTED

3.1 Learning resources collected:

3.1.1 Stages in GIT:



3.1.2 Function in GIT:

3.1.3 Git with visual studio code

3.1.4 HTML tags

3.1.5 CSS Types And Properties

3.1.6 Using Bootstrap

3.1.7 Adobe Illustrator/Photoshop

Learning Resources used during Inplant Training:

1. GIT

Git is software for tracking changes in any set of files, usually used for

coordinating work among programmers collaboratively developing source code during software development. Its goals include speed, data integrity, and support for distributed, non-linear workflows.

I. GITHUB

GitHub, Inc. is a provider of Internet hosting for software development and version control using Git. It offers the distributed version control and source code management functionality of Git, plus its own features.

2.HTML

The HyperText Markup Language or HTML is the standard markup language for documents designed to be displayed in a web browser. HTML elements are the building blocks of HTML pages. HTML elements are delineated by *tags*, written using angle brackets. Tags such as and <input /> directly introduce content into the page.

3.CSS

Cascading Style Sheets is a style sheet language used for describing the presentation of a document written in a markup language such as HTML. CSS is a cornerstone technology of the World Wide Web, alongside HTML and JavaScript.

4.Adobe Photoshop

Adobe Photoshop is a raster graphics editor developed and published by Adobe Inc. for Windows and macOS.

Chapter IV

Detail Report On Work Done

GOVERNMENT POLYTECHNIC, MUMBAI

49, Kherwadi, Ali Yawar Jung Marg, Bandra (E), Mumbai-51

Weekly Report of Inplant Training

Name of the Student: Mayuri Madhav Phapale Enrollment No: FS19IF006

Program: I.T. _____ Dept./ _____ Plant/ _____ Section: _____

_____ Company name & address:

Reknot Solutions Private Limited, Kisan Nagar, Wagale Estate, Thane, Maharashtra - 400601

Week No	Date		Brief weekly report of the work done/observation made	Attendance No. of days
	From	To		
1	27/02/2022	02/03/2022	<p>This is my First day as an Intern working in Reknot Solutions Private Limited, I was introduced to our respective Sir.</p> <p>As per my first week task it was revision of all different programming languages which I have studied in college during first semester.</p>	Present = 4 Absent = 0 Leave = 0
2	05/03/2022	09/03/2022	<p>After the first week revision task, the second meeting was held for us by our company.</p> <p>In this meet we had to do create an account in github and they provide us youtube link on our mail how to create an account in github.</p>	Present = 5 Absent = 0 Leave = 0

Students Signature:

Dated Signature of Industry Mentor

Dated Signature of
Polytechnic Mentor

GOVERNMENT POLYTECHNIC, MUMBAI

49, Kherwadi, Ali Yawar Jung Marg, Bandra (E), Mumbai-51

Weekly Report of Inplant Training

Name of the Student:: Mayuri Madhav Phapale Enrollment No: FS19IF006

Programme: I.T Dept./Plant/Section:

Company name & address:

Reknot Solutions Private Limited, Kisan Nagar, Wagale Estate ,Thane, Maharashtra - 400601

Week No.	Date		Brief weekly report of the work done/observation made	Attendance No. of days
	From	To		
3	12/03/2022	18/03/2022	<p>During the third week, we have designed our E profile using html , css and bootstrap.</p> <p>I have learned new tags in HTML and CSS as well as I am learning more attributes, quotations in bootstrap.</p>	Present = 7 Absent = 0 Leave = 0
4	20/03/2022	24/03/2022	<p>During the fourth Week, Mentor introduce Us with Github and Show us How to Create And upload project on github.</p> <p>I have learned how to upload a file on github. And with the help of visual studio i pass a command on terminal and learn how to commit new changes.</p>	Present = 5 Absent = 0 Leave = 0

Students Signature:

Dated Signature of Industry Mentor

Dated Signature of
Polytechnic Mentor

GOVERNMENT POLYTECHNIC, MUMBAI

49, Kherwadi, Ali Yawar Jung Marg, Bandra (E), Mumbai-51

Weekly Report of Inplant Training

Name of the Student: Mayuri Madhav Phapale Enrollment No: FS19IF006

Programme: I.T Dept./Plant/Section: _____

Company name & address: _____

Reknot Solutions Private Limited, Kisan Nagar, Wagale Estate, Thane, Maharashtra - 400601

Week No.	Date		Brief weekly report of the work done/observation made	Attendance No. of days
	From	To		
5	26/03/2022	31/03/2022	<p>During the fifth week mentor send us google form about to know in which field we are interested and for further studies.</p> <p>In this week ,Mentor Create a group as per we respond to google form then I had selected in UI/UX designing group. I grouped with another 2 members.</p>	Present=6 Absent=0 Leave=0
6	03/04/2022	07/04/2022	<p>During the Sixth week we had introduce about UI/UX. And our mentor provide us different youtube video links for reference.</p> <p>And they created google chat for communication with us and to provide meeting link and github repository.</p>	Present=5 Absent=0 Leave=0

Students Signature: _____

Dated Signature of Industry Mentor _____

Dated Signature of _____

GOVERNMENT POLYTECHNIC, MUMBAI

49, Kherwadi, Ali Yawar Jung Marg, Bandra (E), Mumbai-51

Weekly Report of Inplant Training

Name of the Student: :Mayuri Madhav Phapale Enrollment No: FS19IF006

Programme: I.T Dept./Plant/Section:

Company name & address:

Reknot Solutions Private Limited, Kisan Nagar, Wagale Estate ,Thane, Maharashtra - 400601

Week No.	Date		Brief weekly report of the work done/observation made	Attendance No. of days
	From	To		
7	10/04/2022	16/04/2022	<p>During the seventh week we had a meeting on how to create a website using HTML and CSS.</p> <p>They told us to developed landing Page of reknot Solutions with various css components and for reference they give us reknot official website link.</p>	Present=7 Absent=0 Leave=0
8	19/04/2022	23/04/2022	<p>During the eighth week ,we had meet with our mentor about last task presentation. In that meet , we presented our task , they gave us some suggestion to improve our Page designs and add some new designs.</p> <p>In this week ,we have improve our landing page with more designs.</p>	Present=5 Absent=0 Leave=0

Students Signature:

Dated Signature of Industry Mentor

Dated Signature of
Polytechnic Mentor

GOVERNMENT POLYTECHNIC, MUMBAI

49, Kherwadi, Ali Yawar Jung Marg, Bandra (E), Mumbai-51

Weekly Report of Inplant Training

Name of the Student: Mayuri Madhav Phapale Enrollment No: FS19IF006

Programme: I.T Dept./Plant/Section:

Company name & address:

Reknot Solutions Private Limited, Kisan Nagar, Wagale Estate, Thane, Maharashtra - 400601

Week No.	Date		Brief weekly report of the work done/observation made	Attendance No. of days
	From	To		
9	26/04/2022	30/04/2022	<p>During the ninth week there was a lecture about GIT and GITHUB.</p> <p>In this lecture we were told to practice all commands of GIT and GITHUB. We were also told to learn about how to create repo, how to push/pull files.</p> <p>In this week, we have created our repository and we have uploaded our task files using all git commands.</p>	Present=5 Absent=0 Leave=0
10	04/05/2022	06/05/2022	<p>During the 10th week we had a meeting with our mentor for the next task. They told us to create a webpage using adobe photoshop or adobe illustrator.</p> <p>We collect information about How to work in with Adobe Illustrator.</p>	Present=3 Absent=0 Leave=0

Students Signature:

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Dated Signature of
Polytechnic Mentor

GOVERNMENT POLYTECHNIC, MUMBAI

49, Kherwadi, Ali Yawar Jung Marg, Bandra (E), Mumbai-51

Weekly Report of Inplant Training

Name of the Student: :Mayuri Madhav Phapale Enrollment No: FS19IF006

Programme: I.T Dept./Plant/Section:

Company name & address:

Reknot Solutions Private Limited, Kisan Nagar, Wagale Estate ,Thane, Maharashtra - 400601

Week No.	Date		Brief weekly report of the work done/observation made	Attendance No. of days
	From	To		
11	08/05/2022	13/05/2022	<p>In this eleventh week ,we create many web pages using adobe photoshop with the help of their tool like lasso tool, shapes tool,</p> <p>Various fonts, layers, paint brush tool, art board tool, gradient</p> <p>In adobe illustrator create landing page, Contact page, About us, services , staff page with one theme.</p>	Present=6 Absent=0 Leave=0
12	17/05/2022	20/05/2022	<p>In this twelfth Week ,We had a meet with our mentor about the task presentation ;In this meet we have presented our last task and they gave us some suggestions about our work and told us to improve our code and design.</p> <p>We have improve our code and design.</p>	Present=4 Absent=0 Leave=0

Students Signature:

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Dated Signature of
Polytechnic Mentor

GOVERNMENT POLYTECHNIC, MUMBAI

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Weekly Report of Inplant Training

Name of the Student: :Mayuri Madhav Phapale Enrollment No: FS19IF006

Programme: _____ Dept./Plant/Section: _____

Company name & address: _____

Reknot Solutions Private Limited, Kisan Nagar, Wagale Estate ,Thane, Maharashtra - 400601

Week No.	Date		Brief weekly report of the work done/observation made	Attendance No. of days
	From	To		
13	23/05/2022	28/05/2022	<p>During the thirteenth week ,We had a meet with our mentor about the next task.</p> <p>Mentor introduce us with Bootstrap framework. They explain us how does the bootstrap work and gave us whole information about the bootstrap framework and their various components contains button, model, form, navigation bar, content, layout, Range, carousel ,grid, css variable.</p> <p>They gave us task to design UI of reknot solutions website using bootstrap framework.</p>	Present=6 Absent=0 Leave=0
14	31/05/2022	05/06/2022	During the fourteenth week,	Present=6 Absent=0 Leave=0

Students Signature:

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Dated Signature of
Polytechnic Mentor

GOVERNMENT POLYTECHNIC, MUMBAI

49, Kherwadi, Ali Yawar Jung Marg, Bandra (E), Mumbai-51

Weekly Report of Inplant Training

Name of the Student: Mayuri Madhav Phapale Enrollment No: FS19IF006

Programme: _____ Dept./Plant/Section: _____

Company name & address: _____

Reknot Solutions Private Limited, Kisan Nagar, Wagale Estate, Thane, Maharashtra - 400601

Week No.	Date		Brief weekly report of the work done/observation made	Attendance No. of days
	From	To		
15	30/05/2022	04/06/2022	<p>During the Fifteenth week the deployment of the software was done and the testing was done on it. After the deployment was done some changes were done in the software as requested by the Client.</p> <p>Changes were also tested by me of the updated software system. Also during this week I also did a Software demo for the Client and also made SOP document for the software system. During this I also did another product demo for the client.</p>	Present=5 Absent=0 Leave=1
16				Present = Absent = Leave =

Students Signature:

Dated Signature of Industry Mentor

Dated Signature of
Polytechnic Mentor

GOVERNMENT POLYTECHNIC, MUMBAI

49, Kherwadi, Ali Yawar Jung Marg, Bandra (E), Mumbai-51

Weekly Report of Inplant Training

Name of the Student _____ Enrollment No:

_____ Programme: _____ Dept./Plant/Section:

_____ Company name & address

Week No.	Date		Brief weekly report of the work done/observation made	Attendance No. of days
	From	To		
17				Present = Absent = Leave =
18				Present = Absent = Leave =

Students Signature:

Dated Signature of Industry Mentor

Dated Signature of
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GOVERNMENT POLYTECHNIC, MUMBAI

49, Kherwadi, Ali Yawar Jung Marg, Bandra (E), Mumbai-51

Weekly Report of Inplant Training

Name of the Student _____ Enrollment No: _____

_____ Programme: _____ Dept./Plant/Section: _____

_____ Company name & address _____

Week No.	Date		Brief weekly report of the work done/observation made	Attendance No. of days
	From	To		
19				Present = Absent = Leave =
20				Present = Absent = Leave =

Students Signature: _____

Dated Signature of Industry Mentor

Dated Signature of
Polytechnic Mentor

GOVERNMENT POLYTECHNIC, MUMBAI

49, Kherwadi, Ali Yawar Jung Marg, Bandra (E), Mumbai-51

Weekly Report of Inplant Training

Name of the Student _____ Enrollment No: _____

_____ Programme: _____ Dept./Plant/Section: _____

_____ Company name & address _____

Week No.	Date		Brief weekly report of the work done/observation made	Attendance No. of days
	From	To		
21				Present = Absent = Leave =
22				Present = Absent = Leave =

Students Signature:

Dated Signature of Industry Mentor

Dated Signature of
Polytechnic Mentor

GOVERNMENT POLYTECHNIC, MUMBAI

49, Kherwadi, Ali Yawar Jung Marg, Bandra (E), Mumbai-51

Weekly Report of Inplant Training

Name of the Student _____ Enrollment No: _____

_____ Programme: _____ Dept./Plant/Section: _____

_____ Company name & address _____

Week No.	Date		Brief weekly report of the work done/observation made	Attendance No. of days
	From	To		
23				Present = Absent = Leave =
24				Present = Absent = Leave =

Students Signature: _____

Dated Signature of Industry Mentor

Dated Signature of
Polytechnic Mentor

GOVERNMENT POLYTECHNIC, MUMBAI

49, Kherwadi, Ali Yawar Jung Marg, Bandra (E), Mumbai-51

Daily Report of Inplant Training *

Name of the Student _____ Enrollment _____ No: _____

_____ Programme: _____ Dept./Plant/Section: _____

_____ Company name & address _____

Week No.	Day and Date	Brief report of the work done/observation made etc. in a day

Sign of the student

(* This is the format of daily report maintained by the student during training period. Students shall make separate 200 pages notebook as a daily diary, and maintain the records/observations / work/ report etc. done on a particular day as per the above format.

Student shall carry this diary with them regularly during training period, and maintain the records in it. Also get this diary signed by the industry mentor as well as polytechnic mentor periodically. The information from this diary may be useful while writing the weekly diary, and inplant training report, examinations etc.)

Chapter V

Conclusion

Conclusion:

This Experience of Inplant Training gave me the opportunity to test my knowledge and skills that I learned during the Diploma course. This experience taught me about the corporate functioning of the industry. The Inplant Training helped me to gain experience of the industrial world and helped me in growing. The inplant training gave helped to enhance my communication skills. I also gained the knowledge of Automation Testing during my implant training. During the inplant training I worked and communicated through formal platforms. I took part in client as well as development meetings to understand more about the development process followed within the industry.

During Inplant training I got the opportunity to meet people with different educational backgrounds as well as people with different experiences in the IT industry. I learned from them about the new technologies and their implementation during the Inplant Training. The Inplant training gave the opportunity to work on various different technologies and learn about them. I worked as Software tester and learned about automated testing and various testing tools used in the industry for testing software. I also learned to use platforms such as Azure DevOps and learned about the development cycles followed within the industry. This experience helped me grow and develop my skills.

Chapter VI

References

References:

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https://infyspringboard.onwingspan.com/web/en/app/toc/lex_auth_01317717039336652829_shared/overview

https://infyspringboard.onwingspan.com/web/en/app/toc/lex_auth_01317717039336652829_shared/overview

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https://infyspringboard.onwingspan.com/web/en/app/toc/lex_auth_012672613774237696276_shared/overview

INDUSTRIAL TRAINING COMPLETION CERTIFICATE

This is to certify that Mr. :**Mayuri Madhav Phapale**

Enrolment No SS19IF025, Third Year student of Information Technology, from Government Polytechnic, Mumbai has successfully completed the Inplant Training of 14 weeks, at our organization **Reknot Solutions Private Limited, Kisan Nagar, Wagale Estate, Thane, Maharashtra - 400601**

Training start Date: 23/02/2022

Training completion date: 04/06/2022

The performance and conduct of the above student was good during the complete training period.

Name and Sign.
Section/ Industry Mentor

Date:

Name and Sign.
Head of Section/ Plant/ Officer
(Industry) Seal of the Organization

***Note:** Two copies of this certificate are to be printed on the letterhead of the industry. One copy will be included in the industrial training report, and one copy will retained with the student.

*

NO OBJECTION CERTIFICATE

This is to certify that Mr./ Ms... ,
Enrolment No....., Third Year student of Information Technology from
Government Polytechnic, Mumbai has successfully completed the Inplant Training of
weeks at our organization
..... (name and address of organization) from
..... (start date of training) to
(completion date of training).

This report does not contain any confidential document of the company such as design,
drawing, formula, specifications, documents, procedures, coding etc., which may cause any
type of loss to this company.

Name and Sign.
Section/ Industry Mentor

Date: Name and Sign.
Head of Section/ Plant/ Officer
(Industry) Seal of the Organization

***Note:** Student should take the printout of this certificate on the letterhead of the industry, and include in
the industrial training report.

FEEDBACK FORM

A. Feedback about the student

(Name of student.....)

Enrolment No.)

During complete training period,

- i. Student performance and conduct was ... Good/Average/ poor
- ii. Student was found to be good at
- iii. Improvement of the student is desired in
- iv. Students willingness to learn new things Good/Average/poor
- v. Any other points.....
.....
.....
.....

B. Overall Feedback

- i. Subjects/topics which you feel, to be included in the new curriculum
.....
.....
.....
- ii. Areas that need further improvement
.....
.....
- iii. Suggestion for the modification of existing curriculum
.....
.....
- iv. Any other points
.....
.....

Date:

Name and Sign.
Industry Mentor/ Section / Plant/ Officer (Industry)

OUTCOMES OF THE INPLANT TRAINING COURSE

- Realize administrative, operational and social functioning of industrial organizations.
- Follow industrial working practices, industrial safety practices, and industrial discipline.
- Correlate the theory with industrial applications relevant to the courses studied.
- Recognize responsibilities, ethical values, required interpersonal skills, problem solving skills, self- management and job management skills required while working as first line manager.
- Effectively communicate through technical reports/projects report writing, presentation skills.
- To work with engineering professionals.

WHEN YOU ARE IN INPLANT TRAINING

T - To be in **T**ime

R - Remain attentive all the time

A - **A**ctively participate

I - Interact for clarity

N - Note the important points

I - **I**mprove listening habits

N - **N**ever neglect the safety

G - **G**ain as much as you can

GOVERNMENT POLYTECHNIC, MUMBAI

(An Academically Autonomous Institute of Govt. of Maharashtra)

49, Kherwadi, Aliywar Jung Road, Bandra (E), Mumbai-400051

Phone: 9029001925, Website: www.gpmumbai.ac.in

Email: gpmumbai@gpmumbai.ac.in,

Principal Mail: principal.gpmumbai@dtmaharashtra.gov.in

principal@gpmumbai.ac.in,

Office Mail : office_gpmumbai@dtmaharashtra.gov.in



PROGRAMMES

CIVIL ENGINEERING

FIRST SHIFT - 60 (Intake)

SECOND SHIFT - 60 (Intake)

MECHANICAL ENGINEERING

FIRST SHIFT - 60 (Intake)

SECOND SHIFT - 60 (Intake)

ELECTRICAL ENGINEERING

FIRST SHIFT - 60 (Intake)

COMPUTER ENGINEERING

FIRST SHIFT - 60 (Intake)

SECOND SHIFT - 60 (Intake)

ELECTRONICS ENGINEERING

FIRST SHIFT - 60 (Intake)

SECOND SHIFT - 60 (Intake)

INFORMATION TECHNOLOGY

FIRST SHIFT - 60 (Intake)

SECOND SHIFT - 60 (Intake)

INSTRUMENTATION

ENGINEERING

FIRST SHIFT - 60 (Intake)

RUBBER TECHNOLOGY

FIRST SHIFT - 30 (Intake)

INSTRUMENTATION

ENGINEERING

FIRST SHIFT - 60 (Intake)

LEATHER TECHNOLOGY

FIRST SHIFT - 15 (Intake)

LEATHERGOODS&

FOOTWEARTECHNOLOGY

FIRSTSHIFT -15(Intake)

LEATHER GOODS &
FOOTWEAR TECHNOLOGY

FIRST SHIFT - 15 (Intake)